INCH-POUND
MIL-PRF-3098/7H
19 December 2003
SUPERSEDING
MIL-PRF-3098/7G
27 August 1997

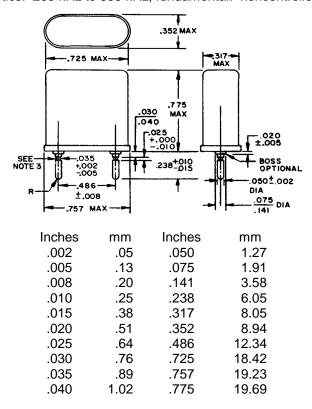
PERFORMANCE SPECIFICATION SHEET

CRYSTAL UNIT, QUARTZ, CR25/U

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification and MIL-PRF-3098.

Pertinent characteristics: 200 kHz to 555 kHz; fundamental: noncontrolled; series resonance.



NOTES:

- 1. Dimensions are in inches.
- 2. Metric equivalents are given for general information only.
- 3. The pin undercut may be omitted.
- 4. Marking to be in accordance with MIL-PRF-3098.

FIGURE 1. Crystal unit - CR25/U.

AMSC N/A FSC 5955

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REQUIREMENTS:

Dimensions, marking, and configuration: See figure 1.

Frequency range: 200 kHz to 555 kHz, inclusive.

Frequency tolerance: ±100 parts per million (ppm).

Equivalent resistance: See table II.

Mode of oscillation: Fundamental.

Operating temperature range (noncontrolled): -40°C to +85°C, inclusive.

Rated drive level: 1.0 mW, maximum.

Resonance: Series.

Shock (specified pulse):

Frequency change permitted: ±10 ppm.

Equivalent resistance change permitted: ±15 percent.

Vibration: Method 201 of MIL-STD-202.

Frequency change permitted: ±10 ppm.

Equivalent resistance change permitted: ±15 percent.

Temperature run:

Frequency change permitted: ±10 ppm.

Equivalent resistance change permitted: ±15 percent.

Bond strength: See table I.

TABLE I. Bond strength.

Frequency range, inclusive (kHz)	Grams, minimum
200 to 250	700
250+ to 320	500
320+ to 370	400
370+ to 435	300
435+ to 555	250

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TABLE II. Equivalent resistance.

Frequency range,	Maximum
inclusive	resistance
<u>kHz</u>	<u>Ohms</u>
200 to 225	2,500
225+ to 265	3,000
265+ to 290	3,500
290+ to 330	4,000
330+ to 370	4,500
370+ to 410	5,000
410+ to 425	5,500
425+ to 460	6,500
460+ to 555	7,500

Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Custodians:

Army - CR

Navy - EC Air Force - 11

DLA - CC

Review activities:

Army - AR, MI

Navy - AS, MC, SH

Air Force - 19

Preparing activity: Army - CR

Agent: DLA - CC

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